


HV WORK INSTRUCTION	Page 1 of 2	Number: 4.10-01-83
	Original Date: 7/9/99	Revision Date:
SUBJECT: Single Fold Creased Tensile Strength	Issued by: Mary Pierce	Approved by: 

1.0 PURPOSE

To measure the creased tensile strength of paper.

2.0 APPLICATION

This method is used for glass filter media.

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3.0 REFERENCE

TAPPI T 494 "Tensile Breaking Properties of Paper and Paperboard (using constant rate of elongation apparatus)"

4.0 DEFINITION

N/A

5.0 RESPONSIBILITY

Any trained personnel performing this procedure.

6.0 PROCEDURE

Materials and Equipment:

Paper Cutter

Tensile Testing machine, a constant rate of elongation type as specified by TAPPI. Machine parameters: Jaw Speed 1 in/min, Gage Length 4 in.

1/8 in. metal rod

Metal disk with 2 in. diameter contact area.

6.1 Cut 1" by 6" sample. Length is in the machine direction.

6.2 Fold sample end to end over the edge of a table edge.

6.3 Place 2 inch disk on top of fold then place a 10 pound weight on top of the disk for 15 minutes.

6.4 Remove sample weight, clamp sample squarely in jaws pull tensile.

6.5 Record Tensile Strength in lb/in (KN/m) and elongation.

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7.0 RECORDS

R & D technicians record in laboratory notebook.

8.0 SAFETY

8.1 Use caution when cutting sample.

8.2 Avoid placing fingers in clamping jaws of tensile tester.

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